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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/662,531	09/15/2000	Kannan Varadhan	La Porta 46-16-7-4-6	1919
50959 WERNER & A	7590 05/14/2007 XENFELD, LLP		EXAMINER	
P.O. BOX 1629 WEST CHESTER, PA 19380			SHAND, ROBERTA A	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
Office Action Cumment	09/662,531	VARADHAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Roberta A. Shand	2616				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE METERS IN (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of the provided period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MON' , cause the application to become AB	CATION.  apply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 De	ecember 2006.					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-11,13 and 14</u> is/are pending in the a	application.					
4a) Of the above claim(s) is/are withdraw		•				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11,13 and 14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce		by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(	s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the prior	rity documents have been	received in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not i	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO/SB/08)</li> </ul>		)/Mail Date formal Patent Application				
Paper No(s)/Mail Date	6)  Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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## Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-11, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue in view of Warrier.
- 6. Regarding claim 1, Inoue teaches (fig. 12) a method creating a bootstrapping agent (col. 18, lines 59-62) that works cooperatively with a M-IP home agent to allocate a temporary home address (inoue teaches acquiring a home address for the mobile) to the host that powers up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13); using the M-IP protocol to contact the M-IP home agent and request the bootstrapping agent to allocate the temporary home address to the host (col. 16, line 60 col. 17, line 16) including a permanent home address allocated by a DHCP protocol between the mobile and the home network (fig. 12) when the mobile powers up in the foreign network, thereby allowing the mobile host that powers up in a foreign network to connect to the internet,
- 7. Inoue does not teach using the temporary home address to create a temporary tunnel between foreign agents associated with the host and the M-IP home agent, wherein the temporary tunnel is used to communicate configuration information.
- 8. Warrier teaches (abstract) using the temporary home address to create a temporary tunnel between a foreign agent associated with the host and the M-IP home agent, wherein the

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temporary tunnel is used to communicate configuration information. It would have been obvious to one of ordinary skill in the art to adapt this to Inoue's system to ensure that the data is efficiently sent to the mobile when it is visiting another site (network).

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- 9. Regarding claim 2, Inoue teaches (col. 5, lines 47-59) the foreign agent is co-located with the host.
- 10. Regarding claim 3, Warrier teaches (fig. 1) the foreign agent is located on a device that is external to the host and resides in the foreign network
- 11. Regarding claims 4 and 6, as for the bootstrapping agent assigning address from a pool of addresses, it is inherent in Inoue's system that a plurality of addresses are available in dynamic address allocation protocol (abstract).
- 12. Regarding claim 5, as for the private address taking the form 10\*, this is a well known format of address in private network's and It would have been obvious to one of ordinary skill in the art to adapt this to Inoue and Warrier's as it is in the art.
- 13. Regarding claim 7, Inoue teaches (col. 16, line 60 col. 17, line 67) a DHCP client located on the host is used to generate messages requesting the configuration information from a DHCP server via the temporary tunnel.

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14. Regarding claim 8, as for the messages generated by the DHCP client are modified at the host to have a format consistent (col. 18, lines 59-62) with a DHCP relay, it is inherent in Inoue's system that messages generated by the DHCP client has a consistent format.

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- 15. Regarding claim 9, Inoue teaches (fig. 12) a method for enabling a mobile host without an IP home address to connect to the internet when powering up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13), comprising: obtaining a temporary IP home address for the host powering up in a foreign network (col. 18, lines 59-62) without an IP home address from an IP address source accessible through a mobile IP home agent\; acquiring configuration parameters including a permanent IP home address from a DHCP server (fig. 4) in the home network of the host;
- 16. Inoue doe not teach establishing a transient tunnel between the mobile IP home agent and a mobile foreign agent associated with the mobile host while the foreign network.
- Warrier teaches establishing a transient tunnel between the mobile IP home agent and a mobile foreign agent associated with the mobile host while the foreign network, using the temporary IP home address (col. 6, line 62 col. 7, line 6); replacing the transient tunnel with a new tunnel between the mobile IP home agent and the mobile IP foreign agent using the permanent IP home address, therefore allowing the mobile without an IP home address to connect to the Internet when powered up in a foreign network (Warrier teaches that once the mobile is in the foreign network, after registration of the mobile host, a tunnel is created to transmit data to the mobile host in the foreign network between the foreign agent and the home agent, see fig, 3). It would have been obvious to one of ordinary skill in the art to adapt this to

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Inoue's system to ensure that the data is efficiently sent to the mobile when it is visiting another site (network).

- 18. Regarding claim 10, Inoue teaches (fig. 12) a method for enabling configuration of a portable host device that powers up in a foreign network to communicate using the internet, comprising: communicating a temporary home address to the host that powers up in a foreign network from bootstrapping agent operating cooperatively with a mobile IP home agent that serves the host device when it operates in the foreign network (col. 18, lines 59-62); and obtaining a permanent address from a DHCP server via the transient bi-directional communication link, wherein the permanent address use thereafter to configure the host to communicate with the internet.
- 19. Inoue does not teach establishing a transient bi-directional link between the host and the mobile IP home agent using the M-IP protocol and the temporary home address
- 20. Warrier teaches establishing a transient bi-directional link between the host and the mobile IP home agent using the M-IP protocol and the temporary home address (col. 6, lines 33 62, Warrier teaches data being sent to the mobile via the home agent, because of the permanent address being associated with the home agent, and the home agent sending the data to the mobile host via the foreign agent see fig. 3). It would have been obvious to one of ordinary skill in the art to adapt this to Inoue's system to ensure that the data is efficiently sent to the mobile when it is visiting another site (network).

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21. Regarding claim 11, Warrier teaches (fig. 3) additional configuration parameters are provided to the host via the transient bi-directional communication link. (Warrier teaches setting up the lifetime with the home agent which is additional configuration parameters)

- Regarding claim 13, Inoue teaches (fig. 12) a method for configuring a mobile that powers up in a foreign network (Inoue teaches that the mobile is turned on in the visited site, col. 16, lines 8-13), comprising: a M-IP protocol to connect the mobile host that powers up in a foreign network to is home network (col. 18line 59 62) using an IP broadcasting (col. 12, lines 20-28) protocol so that the host can discover a addressing DHCP server in its home network, and using the DHCP protocol to communicate addressing and configuration information between the server and the mobile (col. 1, 1-56).
- 23. Inoue does not teach setting up a temporary IP tunnel
- 24. Warrier teaches (abstract) using the temporary home address to create a temporary tunnel between a foreign agent associated with the host and the M-IP home agent, wherein the temporary tunnel is used to communicate configuration information. It would have been obvious to one of ordinary skill in the art to adapt this to Inoue's system to ensure that the data is efficiently sent to the mobile when it is visiting another site (network).
- 25. Regarding claim 14, Inoue teaches (fig. 12) a method for configuring the mobile host when it powers up in a foreign network without an IP home agent address, comprising: obtaining

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a temporary IP home address for the host from an IP address source accessible through the home server (col. 16, lines 8-67).

- 26. Inoue does not teach establishing a transient tunnel between the mobile IP home server and a mobile foreign server using the temporary IP home address.
- Warrier teaches establishing a transient tunnel between the mobile IP home server and a mobile foreign server using the temporary IP home address (col. 6, lines 63 col. 7, line 6); acquiring via the transient tunnel, permanent configuration parameters including a permanent IP home address in the region served by the home server (Warrier teaches that the MBR created by the home agent has the IP address of the mobile); replacing the transient tunnel with a new tunnel between the home server and the foreign server using the permanent IP home address. It would have been obvious to one of ordinary skill in the art to adapt this to Inoue's system to ensure that the data is efficiently sent to the mobile when it is visiting another site (network).

## Response to Arguments

- 28. Applicant's arguments filed April 17, 2006 have been fully considered but they are not persuasive. Applicant argues that Inoue does not teach using a bootstrapping agent to assign a home address to the mobile device. Inoue teaches (col. 16, lines 8-67) and per Applicant's own admission on page 10 of Applicant's arguments, acquiring a home address for the mobile.
- 29. Applicant also argues that Inoue fails to teach using a temporary tunnel to obtain configuration data. Warrier, as mentioned above covers this limitation in fig. 3 and col. 6, lines

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21-64 where is explain the process of a mobile inherently being turned on in the foreign network, a tunnel being set up and "data from the WAP server or other sources of data" being exchanged through the tunnel.

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- 30. Applicant also argues that Warrier is void of any discussion of where a mobile is powered up in a foreign network and a temporary tunnel is used to acquire a permanent IP address. Inoue, as mentioned above teaches acquiring a permanent address (col. 16, lines 8-67). Inoue does not teach using a temporary tunnel when the mobile is powered up in the foreign network. Warrier teaches in fig. 3 and col. 6, lines 21-64 a mobile inherently powering up in a foreign network because it establishes a PPP with the foreign agent. A tunnel is then set up for data exchange.
- 31. Lastly Applicant argues that Warrier does not teach the idea of obtaining an IP address when the mobile is powered up in a foreign network. Inoue is relied upon to meet the limitations of powering up in a mobile network and acquiring an IP address (col. 2, lines 34-36). Warrier is relied upon to meet the limitation of establishing a tunnel when a mobile is in a foreign network and then exchanging data. Warrier also teaches that the MBR created by the home agent has the IP address of the mobile.

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Conclusion

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32. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roberta A Shand whose telephone number is 571-272-3161. The

examiner can normally be reached on M-F 9:00am-5:30pm.

33. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

34. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Roberta A Shand Examiner

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HUY D. VU

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600